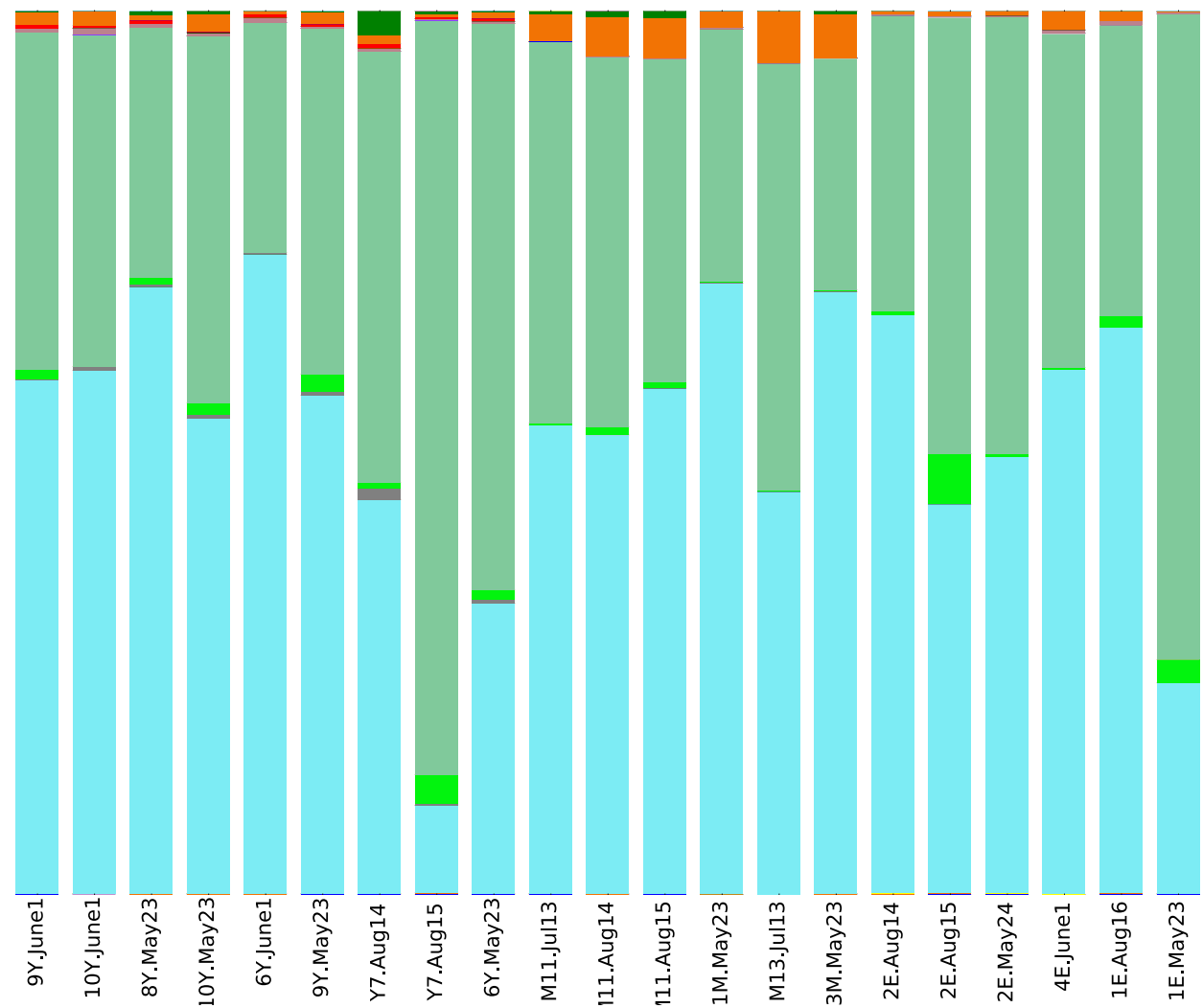








































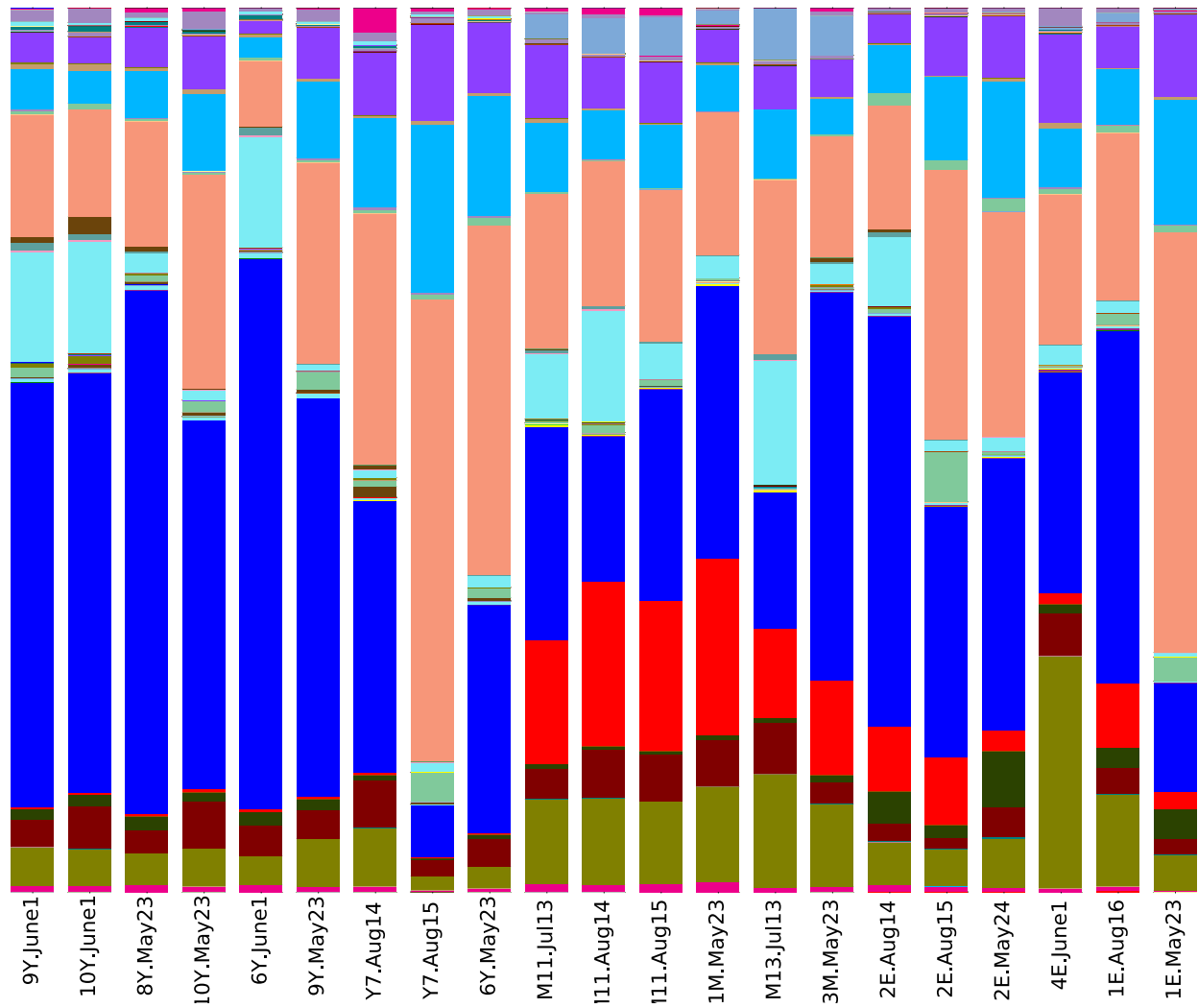
A)



Additional File 7: Taxonomic composition identified using 16S sequences for all 21 samples ordered by increasing age and frailty from left to right at the phylum (A), family (B), and genus (C) levels.

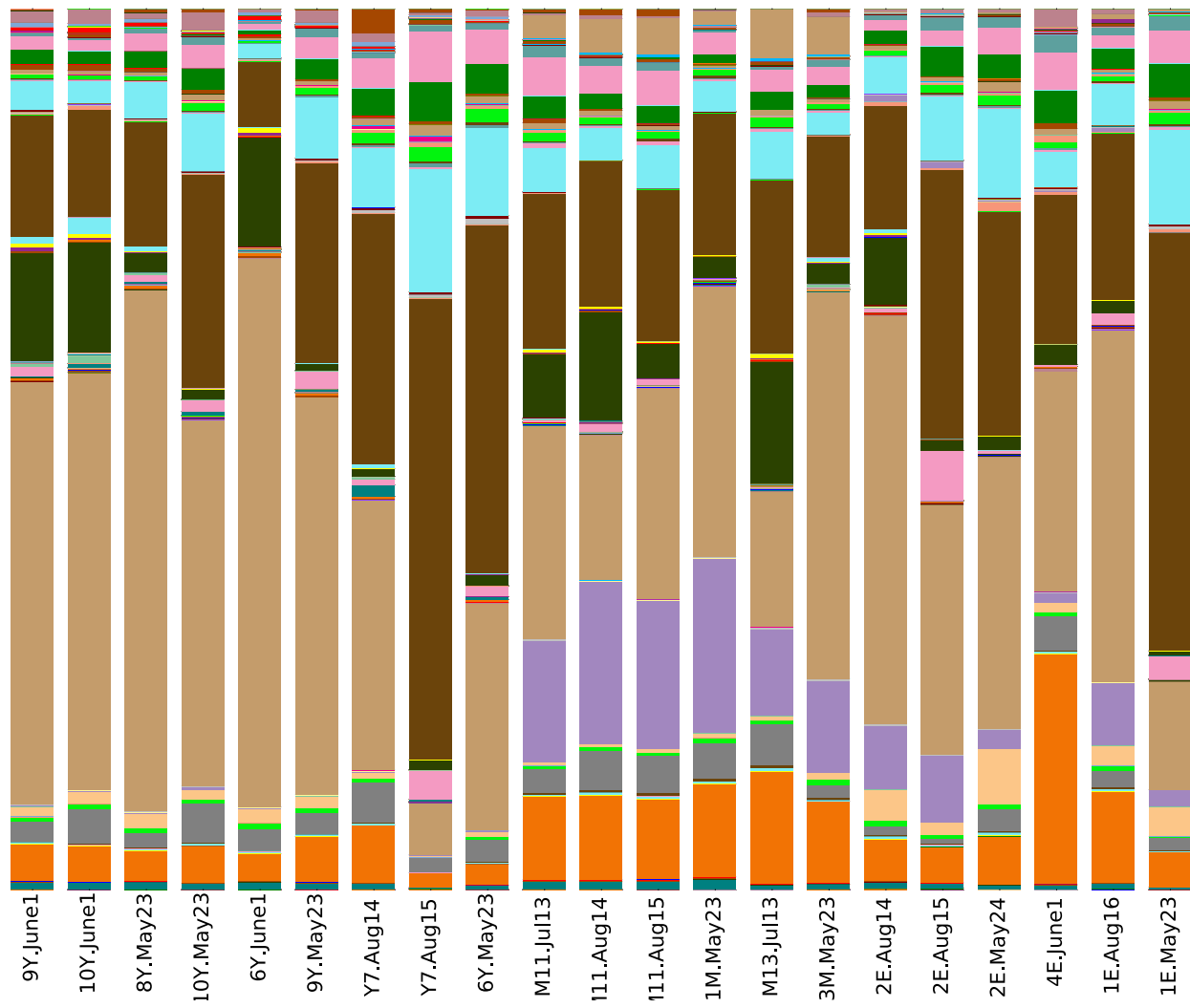
 k_Bacteria; p__
 k_Bacteria; p__Acidobacteria
 k_Bacteria; p__Actinobacteria
 k_Bacteria; p__Armatimonadetes
 k_Bacteria; p__BHI80-139
 k_Bacteria; p__BRC1
 k_Bacteria; p__Bacteroidetes
 k_Bacteria; p__Caldithrix
 k_Bacteria; p__Chlorobi
 k_Bacteria; p__Chloroflexi
 k_Bacteria; p__Cyanobacteria
 k_Bacteria; p__Deferribacteres
 k_Bacteria; p__Elusimicrobia
 k_Bacteria; p__FBP
 k_Bacteria; p__Fibrobacteres
 k_Bacteria; p__Firmicutes
 k_Bacteria; p__Fusobacteria
 k_Bacteria; p__GN04
 k_Bacteria; p__GOUTA4
 k_Bacteria; p__Gemmatimonadetes
 k_Bacteria; p__Hyd24-12
 k_Bacteria; p__Nitrospirae
 k_Bacteria; p__OP8
 k_Bacteria; p__Planctomycetes
 k_Bacteria; p__Proteobacteria
 k_Bacteria; p__SAR406
 k_Bacteria; p__Spirochaetes
 k_Bacteria; p__Synergistetes
 k_Bacteria; p__TM6
 k_Bacteria; p__TM7
 k_Bacteria; p__TPD-58
 k_Bacteria; p__Tenericutes
 k_Bacteria; p__Verrucomicrobia
 k_Bacteria; p__WPS-2
 k_Bacteria; p__WS1
 k_Bacteria; p__WS3
 k_Bacteria; p__ZB3
 k_Bacteria; p__[Thermi]

B)



K_Bacteria; p_...; c_...; o_...; f_...
K_Bacteria; p_Acidobacteria; c_Acidobacteria-6; o_...-15; f_...
K_Bacteria; p_Acidobacteria; c_Acidobacteria-6; o_...-15; f_...RB240
K_Bacteria; p_Acidobacteria; c_Acidobacteria-6; o_...-15; f_...mB2424
K_Bacteria; p_Acidobacteria; c_Acidobacteria; o_Acidobacteriales; f_Acidobacteriaceae
K_Bacteria; p_Acidobacteria; c_Acidobacteria; o_Acidobacteriales; f_Koribacteraceae
K_Bacteria; p_Acidobacteria; c_BPC102; o_...B110; f_...
K_Bacteria; p_Acidobacteria; c_Holophagae; o_Holophagales; f_Holophagaceae
K_Bacteria; p_Acidobacteria; c_O5-K; o_...; f_...
K_Bacteria; p_Acidobacteria; c_RB25; o_...; f_...
K_Bacteria; p_Acidobacteria; c_Solibacteres; o_Solibacteres; f_...
K_Bacteria; p_Acidobacteria; c_Sva0725; o_Sva0725; f_...
K_Bacteria; p_Acidobacteria; c_[Chloracidobacteria]; o_PX29; f_...
K_Bacteria; p_Acidobacteria; c_[Chloracidobacteria]; o_RB41; f_...
K_Bacteria; p_Acidobacteria; c_[Chloracidobacteria]; o_RB41; f_Ellin6075
K_Bacteria; p_Actinobacteria; c_Acidimicrobia; o_Acidimicrobiales; f_...
K_Bacteria; p_Actinobacteria; c_Acidimicrobia; o_Acidimicrobiales; f_Koll13
K_Bacteria; p_Actinobacteria; c_Actinobacteria; o_Actinomycetales; f_Actinomycetaceae
K_Bacteria; p_Actinobacteria; c_Actinobacteria; o_Actinomycetales; f_Brevibacteriaceae
K_Bacteria; p_Actinobacteria; c_Actinobacteria; o_Actinomycetales; f_Cellulomonadaceae
K_Bacteria; p_Actinobacteria; c_Actinobacteria; o_Actinomycetales; f_Corynebacteriaceae
K_Bacteria; p_Actinobacteria; c_Actinobacteria; o_Actinomycetales; f_Dermabacteriaceae
K_Bacteria; p_Actinobacteria; c_Actinobacteria; o_Actinomycetales; f_Microbacteriaceae
K_Bacteria; p_Actinobacteria; c_Actinobacteria; o_Actinomycetales; f_Micrococcaceae
K_Bacteria; p_Actinobacteria; c_Actinobacteria; o_Actinomycetales; f_Mycobacteriaceae
K_Bacteria; p_Actinobacteria; c_Actinobacteria; o_Actinomycetales; f_Nocardiaceae
K_Bacteria; p_Actinobacteria; c_Actinobacteria; o_Actinomycetales; f_Pseudonocardiaceae
K_Bacteria; p_Actinobacteria; c_Actinobacteria; o_Actinomycetales; f_Yaniellaceae
K_Bacteria; p_Actinobacteria; c_Actinobacteria; o_Bifidobacteriales; f_Bifidobacteriaceae
K_Bacteria; p_Actinobacteria; c_Coriobacteria; o_Coriobacteriales; f_Coriobacteriaceae
K_Bacteria; p_Actinobacteria; c_MB-A2-108; o_...; f_...
K_Bacteria; p_Actinobacteria; c_MB-A2-108; o_0319-TL14; f_...
K_Bacteria; p_Actinobacteria; o_Nitriinuptorales; f_Nitriinuptoraceae
K_Bacteria; p_Actinobacteria; c_OPB41; o_...; f_...
K_Bacteria; p_Actinobacteria; c_Rubrobacterales; o_Rubrobacterales; f_Rubrobacteraceae
K_Bacteria; p_Actinobacteria; c_Thermoleophila; o_Gaellales; f_...
K_Bacteria; p_Actinobacteria; c_Thermoleophila; o_Gaellales; f_Gaellaceae
K_Bacteria; p_Actinobacteria; c_Thermoleophila; o_Solirubrobacterales; f_...
K_Bacteria; p_Actinobacteria; c_Thermoleophila; o_Solirubrobacterales; f_Patulibacteraceae
K_Bacteria; p_Armatimonadetes; c_0319-6E2; o_...; f_...
K_Bacteria; p_Armatimonadetes; c_Chthonomonadetes; o_SA-22; f_...
K_Bacteria; p_Armatimonadetes; c_SA-176; o_RB046; f_...
K_Bacteria; p_Armatimonadetes; c_[Fimbrilmonadia]; o_[Fimbrilmonadales]; f_[Fimbrilmonadaceae]
K_Bacteria; p_BH80-139; c_...; o_...; f_...
K_Bacteria; p_BRC1; c_NPL-UPA2; o_...; f_...
K_Bacteria; p_BRC1; c_PRR-11; o_...; f_...
K_Bacteria; p_Bacteroidetes; c_...; o_...; f_...
K_Bacteria; p_Bacteroidetes; c_BME43; o_...; f_...
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_...
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_BA008
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_BS11
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_GSK9119
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_ML6351-40
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Marinilabiaceae
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Porphyrimonadaceae
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Prevotellaceae
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_RF16
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_SA-47
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_SB-1
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_VC21_Bac22
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_[Barnesiellaceae]
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_[Cetodactylaceae]
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_[Paraprevotellaceae]
K_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_p-2534-18B5
K_Bacteria; p_Bacteroidetes; c_Cytophaga; o_Cytophagales; f_Cyclobacteriaceae
K_Bacteria; p_Bacteroidetes; c_Cytophaga; o_Cytophagales; f_Cytophagaceae
K_Bacteria; p_Bacteroidetes; c_Cytophaga; o_Cytophagales; f_Flammeovirgaceae
K_Bacteria; p_Bacteroidetes; c_Flavobacteria; o_...; f_...
K_Bacteria; p_Bacteroidetes; c_Flavobacteria; o_Flavobacteriales; f_...
K_Bacteria; p_Bacteroidetes; c_Flavobacteria; o_Flavobacteriales; f_Cryomorphaceae
K_Bacteria; p_Bacteroidetes; c_Flavobacteria; o_Flavobacteriales; f_Flavobacteriaceae
K_Bacteria; p_Bacteroidetes; c_Flavobacteria; o_Flavobacteriales; f_N59
K_Bacteria; p_Bacteroidetes; c_Flavobacteria; o_Flavobacteriales; f_[Weekselliaceae]
K_Bacteria; p_Bacteroidetes; c_Sphingobacteria; o_Sphingobacteriales; f_...
K_Bacteria; p_Bacteroidetes; c_Sphingobacteria; o_Sphingobacteriales; f_Sphingobacteriaceae
K_Bacteria; p_Bacteroidetes; c_[Rhodotherm]; o_[Rhodothermales]; f_Rhodothermaceae
K_Bacteria; p_Bacteroidetes; c_[Saprospirae]; o_[Saprospirales]; f_...
K_Bacteria; p_Bacteroidetes; c_[Saprospirae]; o_[Saprospirales]; f_Chitinophagaceae
K_Bacteria; p_Bacteroidetes; c_[Saprospirae]; o_[Saprospirales]; f_Saprospiraceae
K_Bacteria; p_Caldithrix; c_Caldithrixae; o_Caldithrixales; f_Caldithrixaceae
K_Bacteria; p_Chlorobi; c_...; o_...; f_...
K_Bacteria; p_Chlorobi; c_BSVZ6; o_A89; f_...
K_Bacteria; p_Chlorobi; c_BSVZ6; o_C20; f_...
K_Bacteria; p_Chlorobi; c_BSVZ6; o_P329; f_...
K_Bacteria; p_Chlorobi; c_Ignavibacteria; o_Ignavibacteriales; f_...
K_Bacteria; p_Chlorobi; c_Ignavibacteria; o_Ignavibacteriales; f_Ignavibacteriaceae
K_Bacteria; p_Chlorobi; c_Ignavibacteria; o_Ignavibacteriales; f_[Melioribacteraceae]
K_Bacteria; p_Chlorobi; c_Ignavibacteria; o_Ignavibacteriales; f_Ignb3-7
K_Bacteria; p_Chlorobi; c_OPB56; o_...; f_...
K_Bacteria; p_Chloroflexi; c_Anaerolineae; o_CFB-26; f_...
K_Bacteria; p_Chloroflexi; c_Anaerolineae; o_Caldivales; f_Caldivaceae
K_Bacteria; p_Chloroflexi; c_Dehalococcoidetes; o_Dehalococcoidales; f_Dehalococcoidaceae
K_Bacteria; p_Chloroflexi; c_S085; o_...; f_...
K_Bacteria; p_Cyanobacteria; c_Ac04-2; o_SM1011; f_...
K_Bacteria; p_Cyanobacteria; c_Ac04-2; o_Y52; f_...
K_Bacteria; p_Cyanobacteria; c_Chloroplast; o_Streptophyta; f_...
K_Bacteria; p_Cyanobacteria; c_Gloeobacterophycidae; o_Gloeobacteriales; f_Gloeobacteraceae
K_Bacteria; p_Cyanobacteria; c_Nostocophycidae; o_Stigonematales; f_Rivulariaceae
K_Bacteria; p_Cyanobacteria; c_Synechococcusphytioides; o_Pseudanabaenales; f_Pseudanabaenaceae
K_Bacteria; p_Deferribacteres; c_Deferribacteres; o_Deferribacteriales; f_...
K_Bacteria; p_Deferribacteres; c_Deferribacteres; o_Deferribacteriales; f_Deferribacteraceae
K_Bacteria; p_Elusimicrobia; c_Elusimicrobia; o_Elusimicrobiales; f_...
K_Bacteria; p_FBP; c_...; o_...; f_...
K_Bacteria; p_Fibrobacteres; c_B5-096; o_...; f_...
K_Bacteria; p_Firmicutes; c_AHT28; o_...; f_...
K_Bacteria; p_Firmicutes; c_Bacilli; o_Bacillales; f_...
K_Bacteria; p_Firmicutes; c_Bacilli; o_Bacillales; f_Alicyclobacillaceae
K_Bacteria; p_Firmicutes; c_Bacilli; o_Bacillales; f_Bacillaceae
K_Bacteria; p_Firmicutes; c_Bacilli; o_Bacillales; f_Paenibacillaceae
K_Bacteria; p_Firmicutes; c_Bacilli; o_Bacillales; f_Planococcaceae
K_Bacteria; p_Firmicutes; c_Bacilli; o_Bacillales; f_Staphylococcaceae
K_Bacteria; p_Firmicutes; c_Bacilli; o_Bacillales; f_Thermoactinomycetaceae
K_Bacteria; p_Firmicutes; c_Bacilli; o_Bacillales; f_[Eugubacteraceae]
K_Bacteria; p_Firmicutes; c_Bacilli; o_Gemellales; f_...
K_Bacteria; p_Firmicutes; c_Bacilli; o_Gemellales; f_Gemellaceae
K_Bacteria; p_Firmicutes; c_Bacilli; o_Haloplasmatales; f_Haloplasmataceae
K_Bacteria; p_Firmicutes; c_Bacilli; o_Lactobacillales; f_...
K_Bacteria; p_Firmicutes; c_Bacilli; o_Lactobacillales; f_Aerococcaceae
K_Bacteria; p_Firmicutes; c_Bacilli; o_Lactobacillales; f_Carnobacteriaceae
K_Bacteria; p_Firmicutes; c_Bacilli; o_Lactobacillales; f_Enterococcaceae
K_Bacteria; p_Firmicutes; c_Bacilli; o_Lactobacillales; f_Lactobacillaceae
K_Bacteria; p_Firmicutes; c_Bacilli; o_Lactobacillales; f_Leuconostocaceae
K_Bacteria; p_Firmicutes; c_Bacilli; o_Lactobacillales; f_Streptococcaceae
K_Bacteria; p_Firmicutes; c_Bacilli; o_Tuftsibacterales; f_Tuftsibacteraceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_...; f_...
K_Bacteria; p_Firmicutes; c_Clostridia; o_BSA28-08; f_...
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_...
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Caldicoprobacteraceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Christensenellaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Clostridiaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Dehalobacteriaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Eubacteraceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Gracilbacteraceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Heliobacteriaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Peptococcaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Peptostreptococcaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_SB92-4172
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Syntrophomonadaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Veillonellaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Acidaminobacteriaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Mogibacteriaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_[Tissierellaceae]
K_Bacteria; p_Firmicutes; c_Clostridia; o_Halanaerobiales; f_...
K_Bacteria; p_Firmicutes; c_Clostridia; o_Halanaerobiales; f_Halanaerobaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Halanaerobiales; f_Halobacteroidaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_MBA08; f_...
K_Bacteria; p_Firmicutes; c_Clostridia; o_Natranaerobiales; f_...
K_Bacteria; p_Firmicutes; c_Clostridia; o_Natranaerobiales; f_Anaerobranchaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Natranaerobiales; f_Contubernaliaceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Natranaerobiales; f_ML1228-1
K_Bacteria; p_Firmicutes; c_Clostridia; o_OPB54; f_...
K_Bacteria; p_Firmicutes; c_Clostridia; o_SHA-98; f_...
K_Bacteria; p_Firmicutes; c_Clostridia; o_SHA-98; f_D2
K_Bacteria; p_Firmicutes; c_Clostridia; o_Thermoanaerobacteriales; f_...
K_Bacteria; p_Firmicutes; c_Clostridia; o_Thermoanaerobacteriales; f_Caldicellulosyntroraceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Thermoanaerobacteriales; f_Thermoanaerobacteraceae
K_Bacteria; p_Firmicutes; c_Clostridia; o_Thermoanaerobacteriales; f_Thermodesulfobiaceae
K_Bacteria; p_Firmicutes; c_Erysipelotrichi; o_Erysipelotrichales; f_Erysipelotrichaceae
K_Bacteria; p_Fusobacteria; c_Fusobacteria; o_Fusobacteriales; f_Fusobacteriaceae
K_Bacteria; p_GN04; c_MSB-5A5; o_...; f_...
K_Bacteria; p_GOUT4; c_...; o_...; f_...
K_Bacteria; p_Gemmatimonadetes; c_...; o_...; f_...
K_Bacteria; p_Gemmatimonadetes; c_Gemm-1; o_...; f_...
K_Bacteria; p_Gemmatimonadetes; c_Gemm-3; o_...; f_...
K_Bacteria; p_Gemmatimonadetes; c_JL-ETNP-239; o_...; f_...
K_Bacteria; p_Hyd24-12; c_WM88; o_...; f_...
K_Bacteria; p_Nitrospirae; c_Nitrospira; o_Nitrospirales; f_0319-6A21
K_Bacteria; p_Nitrospirae; c_Nitrospira; o_Nitrospirales; f_Nitrospiraceae
K_Bacteria; p_OPB; c_...; o_...; f_...
K_Bacteria; p_OPB; c_OPB-1; o_...; f_...
K_Bacteria; p_Plancntomyces; c_Phycisphaerae; o_Phycisphaerales; f_...
K_Bacteria; p_Plancntomyces; c_Plancntomyetia; o_Gemmatiales; f_Isosphaeraceae
K_Bacteria; p_Plancntomyces; c_Plancntomyetia; o_Pirellulales; f_Pirellulaceae
K_Bacteria; p_Proteobacteria; c_...; o_...; f_...
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_...; f_...
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Caulobacteriales; f_...
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Kiloniellales; f_Kiloniellaceae
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Rhizobiales; f_...
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Rhizobiales; f_Aurantimonadaceae
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Rhizobiales; f_Hyphomicrobiaceae
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Rhizobiales; f_Methylocystaceae
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Rhizobiales; f_Rhizobiaceae
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Rhodospirillales; f_Rhodobacteraceae
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Rhodospirillales; f_Acetobacteraceae
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Rhodospirillales; f_Rhodospirillaceae
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Rickettsiales; f_...
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Rickettsiales; f_Pelagibacteraceae
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Rickettsiales; f_mitochondria
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Sphingomonadales; f_Erythrobacteraceae
K_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_Sphingomonadales; f_Sphingomonadaceae
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_...; f_...
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_A21b; f_EB1003
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Burkholderiales; f_...
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Burkholderiales; f_Algalgenaceae
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Burkholderiales; f_Burkholderiaceae
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Burkholderiales; f_Cornamnadaceae
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Burkholderiales; f_Oxalobacteraceae
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Gallionellales; f_Gallionellaceae
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_MMD1; f_...
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_MWH-UniP1; f_...
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Methylophilales; f_Methylophilaceae
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Neisseriales; f_Neisseriaceae
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Procabbacteriales; f_Procabbacteriaceae
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Rhodocyclales; f_Rhodocyclaceae
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_SC-146; f_...
K_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Thiobacterales; f_...
K_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Bdellovibrionales; f_Bdellovibrionaceae
K_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfurales; f_Desulfuraceae
K_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfobacteriales; f_Desulfobacteraceae
K_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfobacteriales; f_Desulfobulbaceae
K_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfobivirionales; f_Desulfobivirionaceae
K_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfurimonadales; f_Geobacteraceae
K_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_IndB-24; f_...
K_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_MZ46; f_...
K_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Mycococcales; f_...
K_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_P819; f_...
K_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Spirobacillales; f_...
K_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Syntrophobacteriales; f_...
K_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Syntrophobacteriales; f_Syntrophaceae
K_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Syntrophobacteriales; f_Syntrophobacteraceae
K_Bacteria; p_Proteobacteria; c_Epsilonproteobacteria; o_Campylobacteriales; f_Campylobacteraceae
K_Bacteria; p_Proteobacteria; c_Epsilonproteobacteria; o_Campylobacteriales; f_Helicobacteraceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_...; f_...
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_34P16; f_...
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Acidithiobacillales; f_Acidithiobacillaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Aeromonadales; f_Succinivibrionaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Alteromonadales; f_Alteromonadaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Alteromonadales; f_Colewelliaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Alteromonadales; f_Pasteurellaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Cardiobacteriales; f_...
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Cardiobacteriales; f_Cardiobacteriaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Chromatiales; f_...
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Chromatiales; f_Ectothiorhodospiraceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Legionellales; f_Coxiellaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Methylococcales; f_...
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Methylococcales; f_Methylococcaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Methylococcales; f_Halomonadaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Oceanospirillales; f_Oceanospirillaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Pasteurellales; f_Pasteurellaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Pseudomonadales; f_Moraxellaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Pseudomonadales; f_Pseudomonadaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Thiotrichales; f_Piscirickettsiaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Thiotrichales; f_Thiotrichaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Vibrionales; f_Vibrionaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Xanthomonadales; f_Sinobacteraceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Xanthomonadales; f_Xanthomonadaceae
K_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Marinicellales; f_Marinicellaceae
K_Bacteria; p_Proteobacteria; c_Zetaproteobacteria; o_Mariprofundales; f_Mariprofundaceae
K_Bacteria; p_SAR406; c_AB16; o_Arctic96B-7; f_A714017
K_Bacteria; p_SAR406; c_AB16; o_ZA3648; f_AEGEAN_185
K_Bacteria; p_Spirochaetes; c_Spirochaetes; o_MPT2-76; f_...
K_Bacteria; p_Spirochaetes; o_Spirochaetes; o_Spirochaetales; f_Spirochaetaceae
K_Bacteria; p_Spirochaetes; c_[Leptospirae]; o_[Leptospirales]; f_Leptospirochaceae
K_Bacteria; p_Synergistetes; c_Synergistetes; o_Synergistales; f_...
K_Bacteria; p_Synergistetes; c_Synergistetes; o_Synergistales; f_Synergistaceae
K_Bacteria; p_TM6; c_SBRH58; o_...; f_...
K_Bacteria; p_TM6; c_SJA-4; o_...; f_...
K_Bacteria; p_TM7; c_TM7-1; o_...; f_...
K_Bacteria; p_TM7; c_TM7-3; o_...; f_...
K_Bacteria; p_TM7; c_TM7-3; o_CW040; f_...
K_Bacteria; p_TM7; c_TM7-3; o_025; f_...
K_Bacteria; p_TM7; c_TM7-3; o_025; f_Bs-045
K_Bacteria; p_TPD-58; c_...; o_...; f_...
K_Bacteria; p_Tenericutes; c_CK-1C4-19; o_...; f_...
K_Bacteria; p_Tenericutes; c_Mollicutes; o_...; f_...
K_Bacteria; p_Tenericutes; c_Mollicutes; o_Acholeplasmatales; f_Acholeplasmataceae
K_Bacteria; p_Tenericutes; c_Mollicutes; o_Aneroplasmatales; f_Aneroplasmataceae
K_Bacteria; p_Tenericutes; c_Mollicutes; o_Entomoplasmatales; f_...
K_Bacteria; p_Tenericutes; c_Mollicutes; o_Mycoplasmatales; f_Mycoplasmataceae
K_Bacteria; p_Tenericutes; c_Mollicutes; o_RF39; f_...
K_Bacteria; p_Tenericutes; c_RF3; o_ML6151-28; f_...
K_Bacteria; p_Verrucomicrobia; c_...; o_...; f_...
K_Bacteria; p_Verrucomicrobia; c_Verrucomicrobiae; o_Verrucomicrobiales; f_Verrucomicrobiaceae
K_Bacteria; p_Verrucomicrobia; c_[Pedosphaerae]; o_...; f_...
K_Bacteria; p_Verrucomicrobia; c_[Pedosphaerae]; o_[Pedosphaerales]; f_Ellin0515
K_Bacteria; p_Verrucomicrobia; c_[Spartobacteria]; o_[Chthonobacteriales]; f_0102236
K_Bacteria; p_WPS-2; c_...; o_...; f_...
K_Bacteria; p_WS1; c_...; o_...; f_...
K_Bacteria; p_WS3; c_PRR-12; o_GN03; f_K5B4
K_Bacteria; p_WS3; c_PRR-12; o_Sediment-1; f_...
K_Bacteria; p_ZB3; c_...; o_...; f_...
K_Bacteria; p_Thermi; c_Deinococci; o_Deinococcales; f_Deinococcaceae
K_Bacteria; p_Thermi; c_Deinococci; o_Deinococcales; f_Trupeaceae
K_Bacteria; p_Thermi; c_Deinococci; o_Thermiales; f_Thermaceae

C)



[illegible]